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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/666,873	10/666,873 09/17/2003		Hisashi Tsukamoto	Q137-US5	8890		
31815	7590	10/20/2006		EXAM	EXAMINER		
MARY EL	[ZABET]	H BUSH	YUAN, DA	YUAN, DAH WEI D			
QUALLION	LLC						
P.O. BOX 92	23127		ART UNIT	PAPER NUMBER			
SYLMAR,	CA 9139	2-3127	1745				

DATE MAILED: 10/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applican	it(s)				
		10/666,873	TSUKAM	IOTO ET AL.				
Office	Action Summary	Examiner	Art Unit					
		Dah-Wei D. Yuan	1745					
The MAIL Period for Reply	ING DATE of this communication app	ears on the cover sh	eet with the correspond	lence address				
WHICHEVER IS - Extensions of time m after SIX (6) MONTH - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR REPLY LONGER, FROM THE MAILING DA ay be available under the provisions of 37 CFR 1.13 S from the mailing date of this communication. is specified above, the maximum statutory period we the set or extended period for reply will, by statute, the Office later than three months after the mailing djustment. See 37 CFR 1.704(b).	ATE OF THIS COMN 36(a). In no event, however, vill apply and will expire SIX (cause the application to bec	MUNICATION. may a reply be timely filed 6) MONTHS from the mailing da tome ABANDONED (35 U.S.C. §	ste of this communication. § 133).				
Status								
1) Responsiv	e to communication(s) filed on							
2a) ☐ This action		action is non-final.						
3) Since this	application is in condition for allowar	nce except for forma	matters, prosecution a	as to the ments is				
closed in a	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Clair	ns							
4a) Of the a 5) ☐ Claim(s) _ 6) ☐ Claim(s) _ 7) ☐ Claim(s) _	65 is/are pending in the application. above claim(s) is/are withdrav is/are allowed is/are rejected is/are objected to. 65 are subject to restriction and/or e	vn from consideratio		÷				
Application Papers			·					
9) The specific	cation is objected to by the Examine	r. ,		•				
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	ay not request that any objection to the o		-	` '				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
in ine oath or	declaration is objected to by the Ex	aminer. Note the att	acned Office Action or	form PTO-152.				
Priority under 35 U.	S.C. § 119							
a) ☐ All b) ☐ 1. ☐ Certi 2. ☐ Certi 3. ☐ Copi appli	ment is made of a claim for foreign of Some * c) None of: fied copies of the priority documents fied copies of the priority documents es of the certified copies of the priorication from the International Bureauched detailed Office action for a list of	have been received have been received ity documents have (PCT Rule 17.2(a))	d. d in Application No been received in this N	·				
Attachment(s)	•							
	on's Patent Drawing Review (PTO-948) re Statement(s) (PTO/SB/08)	Pape 5) Notice	view Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Applica er:	ation				

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Art Unit: 1745

ELECTIC STORAGE BATTERY CONSTRUCTION AND METHOD OF MANUFACTURE

Examiner: Yuan S.N. 10/666,873 Art Unit: 1745 October 16, 2006

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-19,43-50,55-57,60-65, drawn to an electric storage battery, classified in class 429, subclass 94.
- II. Claims 29-38, drawn to an electrode assembly, classified in class 429, subclass122.
- III. Claims 20-28,39-42,51-54,58,59, drawn to a method of making an electric storage battery, classified in class 29, subclass 623.1.

The inventions are distinct, each from the other because of the following reason:

- 2. Inventions III and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). The instant disclosure teaches the electric storage battery can be fabricated by various methods as stated in claims 20-28,39-42,51-54,58-59, respectively.
- 3. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require

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the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the electric storage battery does not require the particulars of the electrode assembly as claimed to show novelty and unobviousness. The subcombination has separate utility and can be used as a capacitor.

- 4. If invention I is elected, an election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention.
- I-1, Claims 1-9, drawn to an electric storage battery having a case and an electrode assembly, which includes a hollow elongate mandrel.
- I-2, Claims 10-19, drawn to an electric storage battery having an electrically conductive elongate pin and a reinforcing mandrel on the pin.
- I-3, Claims 43-46, drawn to an electric storage battery comprising a flexible conductive tab.
- I-4, Claims 47-50, drawn to an electric storage battery comprising a flexible conductive tab and a fastening means which secures a second end cap to the tab.
- I-5, Claim 55, drawn to an electric storage battery having an electrically conductive case hermetically sealed by first and second end caps and second end caps have no separate fill holes.
- I-6, Claims 56-57, drawn to an electric storage battery having a case comprising a peripheral wall of electrically conductive material defining an interior volume.

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I-7, Claims 60-65, drawn to an electric storage battery having a case comprising a flexible conductive tab electrically connected to an end cap at a second location.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims directed to invention I is generic.

- 5. If invention II is elected, an election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention.
- II-1, Claims 29-33, drawn to an electrode assembly comprising at least one separator strip separating the electrode strips mounted on a pin.
 - II-2, Claims 34-38, are drawn to an electrode assembly does not require a separator strip.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims directed to invention II are generic.

- 6. If invention III is elected, an election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention.
- III-1, Claims 20-28, drawn to a method of making an electric storage battery comprising winding together first polarity electrode strip and second polarity electrode strip to form a spiral roll having at least a portion of the pin within the spiral roll.

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III-2, Claims 39-42, drawn to a method of making an electric storage battery comprising winding together first polarity electrode strip and second polarity electrode strip to form a spiral roll.

III-3, Claims 51-54, drawn to a method of making an electric storage battery comprising fastening the second end cap to the flexible conductive tab.

III-4, Claims 58-59, drawn to a method of making an electric storage battery comprising depositing electrolyte into the case through the second wall opening.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims directed to invention III are generic.

- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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9. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dah-Wei D. Yuan October 16, 2006

> DAH-WEIYUAN PRIMARY EXAMINER